

# Refine Search

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## Search Results -

Terms	Documents
L9 and L3	7

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US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
**Database:** EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

**Search:**

## Search History

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**DATE:** Tuesday, May 29, 2007    [Purge Queries](#)    [Printable Copy](#)    [Create Case](#)

**Set Name** **Query**

side by side

*DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ*

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
			result set
<u>L1</u>	XML and (test\$3 same (report\$1 or summar\$3))	1885	<u>L1</u>
<u>L2</u>	L1 and (independent same XML)	125	<u>L2</u>
<u>L3</u>	L1 and (independent same platform\$1)	241	<u>L3</u>
<u>L4</u>	L2 and (arrang\$5 same result\$1)	32	<u>L4</u>
<u>L5</u>	L3 and (arrang\$5 same result\$1)	51	<u>L5</u>
<u>L6</u>	715/513.ccls.	3250	<u>L6</u>
<u>L7</u>	707/10.ccls.	7090	<u>L7</u>
<u>L8</u>	707/101.ccls.	3059	<u>L8</u>
<u>L9</u>	717/124.ccls.	967	<u>L9</u>
<u>L10</u>	L6 and L3	6	<u>L10</u>
<u>L11</u>	L7 and L3	10	<u>L11</u>
<u>L12</u>	L8 and L3	3	<u>L12</u>
<u>L13</u>	L9 and L3	7	<u>L13</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 6 of 6 returned.

1. Document ID: US 20060156224 A1

L10: Entry 1 of 6

File: PGPB

Jul 13, 2006

PGPUB-DOCUMENT-NUMBER: 20060156224

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060156224 A1

TITLE: Method and apparatus for declarative updating of self-describing, structured documents

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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2. Document ID: US 20050039166 A1

L10: Entry 2 of 6

File: PGPB

Feb 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050039166

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050039166 A1

TITLE: XML validation processing

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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3. Document ID: US 20050022115 A1

L10: Entry 3 of 6

File: PGPB

Jan 27, 2005

PGPUB-DOCUMENT-NUMBER: 20050022115

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050022115 A1

TITLE: Visual and interactive wrapper generation, automated information extraction from web pages, and translation into xml

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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4. Document ID: US 20040205563 A1

L10: Entry 4 of 6

File: PGPB

Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040205563

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040205563 A1

## Record List Display

TITLE: Specifying DICOM semantic constraints in XML

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 5. Document ID: US 7036072 B1

L10: Entry 5 of 6

File: USPT

Apr 25, 2006

US-PAT-NO: 7036072

DOCUMENT-IDENTIFIER: US 7036072 B1

TITLE: Method and apparatus for declarative updating of self-describing, structured documents

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 6. Document ID: US 6950985 B2

L10: Entry 6 of 6

File: USPT

Sep 27, 2005

US-PAT-NO: 6950985

DOCUMENT-IDENTIFIER: US 6950985 B2

TITLE: Specifying DICOM semantic constraints in XML

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KOMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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Terms

Documents

L6 and L3

6

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1. Document ID: US 20060026162 A1

L11: Entry 1 of 10

File: PGPB

Feb 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060026162

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060026162 A1

TITLE: Content management system

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

2. Document ID: US 20050234924 A1

L11: Entry 2 of 10

File: PGPB

Oct 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050234924

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050234924 A1

TITLE: Automated patching of code for schema derived classes

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

3. Document ID: US 20030167209 A1

L11: Entry 3 of 10

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030167209

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030167209 A1

TITLE: Online intelligent information comparison agent of multilingual electronic data sources over inter-connected computer networks

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw Desc](#) [Image](#)

4. Document ID: US 20020087554 A1

L11: Entry 4 of 10

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020087554

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020087554 A1

## Record List Display

TITLE: Universal medication scan code data repository (UMSCDR)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 5. Document ID: US 7191183 B1

L11: Entry 5 of 10

File: USPT

Mar 13, 2007

US-PAT-NO: 7191183

DOCUMENT-IDENTIFIER: US 7191183 B1

TITLE: Analytics and data warehousing infrastructure and services

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 6. Document ID: US 6640244 B1

L11: Entry 6 of 10

File: USPT

Oct 28, 2003

US-PAT-NO: 6640244

DOCUMENT-IDENTIFIER: US 6640244 B1

TITLE: Request batcher in a transaction services patterns environment

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 7. Document ID: US 6571282 B1

L11: Entry 7 of 10

File: USPT

May 27, 2003

US-PAT-NO: 6571282

DOCUMENT-IDENTIFIER: US 6571282 B1

TITLE: Block-based communication in a communication services patterns environment

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 8. Document ID: US 6560639 B1

L11: Entry 8 of 10

File: USPT

May 6, 2003

US-PAT-NO: 6560639

DOCUMENT-IDENTIFIER: US 6560639 B1

TITLE: System for web content management based on server-side application

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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## Γ 9. Document ID: US 6529909 B1

L11: Entry 9 of 10

File: USPT

Mar 4, 2003

## Record List Display

US-PAT-NO: 6529909

DOCUMENT-IDENTIFIER: US 6529909 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Method for translating an object attribute converter in an information services patterns environment

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

10. Document ID: US 6434568 B1

L11: Entry 10 of 10

File: USPT

Aug 13, 2002

US-PAT-NO: 6434568

DOCUMENT-IDENTIFIER: US 6434568 B1

TITLE: Information services patterns in a netcentric environment

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Search](#) | [Advanced Search](#) | [Claims](#) | [KMC](#) | [Drawn Desc](#) | [Image](#)

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L12: Entry 1 of 3

File: USPT

Mar 13, 2007

US-PAT-NO: 7191183

DOCUMENT-IDENTIFIER: US 7191183 B1

TITLE: Analytics and data warehousing infrastructure and services

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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**Γ 2. Document ID: US 6993533 B1**

L12: Entry 2 of 3

File: USPT

Jan 31, 2006

US-PAT-NO: 6993533

DOCUMENT-IDENTIFIER: US 6993533 B1

TITLE: Relational database drill-down convention and reporting tool

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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**Γ 3. Document ID: US 6539396 B1**

L12: Entry 3 of 3

File: USPT

Mar 25, 2003

US-PAT-NO: 6539396

DOCUMENT-IDENTIFIER: US 6539396 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Multi-object identifier system and method for information service pattern environment

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Claims</a>	<a href="#">KMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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Terms

Documents

L8 and L3

3

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## Search Results - Record(s) 1 through 7 of 7 returned.

1. Document ID: US 20070028217 A1

L13: Entry 1 of 7

File: PGPB

Feb 1, 2007

PGPUB-DOCUMENT-NUMBER: 20070028217

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20070028217 A1

TITLE: Testing software using verification data defined independently of the testing code

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

2. Document ID: US 20060248511 A1

L13: Entry 2 of 7

File: PGPB

Nov 2, 2006

PGPUB-DOCUMENT-NUMBER: 20060248511

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060248511 A1

TITLE: Debugging prototyped system solutions in solution builder wizard environment

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

3. Document ID: US 20030167423 A1

L13: Entry 3 of 7

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030167423

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030167423 A1

TITLE: Program product, method, and system for testing consistency of machine code files and source files

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KIMC](#) [Drawn Desc](#) [Image](#)

4. Document ID: US 7197417 B2

L13: Entry 4 of 7

File: USPT

Mar 27, 2007

US-PAT-NO: 7197417

DOCUMENT-IDENTIFIER: US 7197417 B2

## Record List Display

TITLE: Method and structure to develop a test program for semiconductor integrated circuits

## PRIOR-PUBLICATION:

DOC-ID  
US 20050154551 A1

DATE

July 14, 2005

Full	Title	Citation	Front	Review	Classification	Date	Reference	Schematics	Dependencies	Claims	KM/C	Draw. Desc	Image
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## Γ 5. Document ID: US 7191326 B2

L13: Entry 5 of 7

File: USPT

Mar 13, 2007

US-PAT-NO: 7191326

DOCUMENT-IDENTIFIER: US 7191326 B2

TITLE: Method and apparatus for making and using test verbs

## PRIOR-PUBLICATION:

DOC-ID  
US 20050119853 A1

DATE

June 2, 2005

Full	Title	Citation	Front	Review	Classification	Date	Reference	Schematics	Dependencies	Claims	KM/C	Draw. Desc	Image
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## Γ 6. Document ID: US 6898704 B2

L13: Entry 6 of 7

File: USPT

May 24, 2005

US-PAT-NO: 6898704

DOCUMENT-IDENTIFIER: US 6898704 B2

TITLE: Method and apparatus for making and using test verbs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Schematics	Dependencies	Claims	KM/C	Draw. Desc	Image
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## Γ 7. Document ID: US 6862682 B2

L13: Entry 7 of 7

File: USPT

Mar 1, 2005

US-PAT-NO: 6862682

DOCUMENT-IDENTIFIER: US 6862682 B2

TITLE: Method and apparatus for making and using wireless test verbs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Schematics	Dependencies	Claims	KM/C	Draw. Desc	Image
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Terms	Documents
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## Refine Search

### Search Results -

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XML same test same summar\$3 same independent\$2 same report\$1 same tag\$1	0

**Database:**

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- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

**Search:**

### Search History

**DATE:** Tuesday, May 29, 2007. [Purge Queries](#) [Printable Copy](#) [Create Case](#)

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	side by side			result set
DB=PGPB; PLUR=YES; OP=ADJ	L1	XML same test same summar\$3 same independent\$2 same report\$1 same suite same tag\$1	0	L1
	L2	XML same test same summar\$3 same independent\$2 same report\$1 same tag\$1	0	L2

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expanded form

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Best 200 shown

Relevance scale

- 1** [What makes the differences: benchmarking XML database implementations](#)
- Hongjun Lu, Jeffrey Xu Yu, Guoren Wang, Shihui Zheng, Haifeng Jiang, Ge Yu, Aoying Zhou  
February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(589.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is emerging as a major standard for representing data on the World Wide Web. Recently, many XML storage models have been proposed to manage XML data. In order to assess an XML database's abilities to deal with XML queries, several benchmarks have also been proposed, including XMark and XMach. However, no reported studies using those benchmarks were found that can provide users with insights on the impacts of a variety of storage models on XML query performance. In this article, we report our ...

**Keywords:** XML query processing, XML storage model, benchmark

- 2** [XML: XML screamer: an integrated approach to high performance XML parsing, validation and deserialization](#)
- Margaret G. Kostoulas, Morris Matsa, Noah Mendelsohn, Eric Perkins, Abraham Heifets, Martha Mercaldi  
May 2006 **Proceedings of the 15th international conference on World Wide Web WWW '06**

**Publisher:** ACM Press

Full text available: [pdf\(303.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an experimental system in which customized high performance XML parsers are prepared using parser generation and compilation techniques. Parsing is integrated with Schema-based validation and deserialization, and the resulting validating processors are shown to be as fast as or in many cases significantly faster than traditional nonvalidating parsers. High performance is achieved by integration across layers of software that are traditionally separate, by avoiding unnecessary ...

**Keywords:** JAX-RPC, SAX, XML, XML schema, parsing, performance, schema compilation, validation

- 3** [XML database support for program trace visualisation](#)

Craig Anslow, Stuart Marshall, Robert Biddle, James Noble, Kirk Jackson

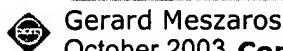
January 2004 **Proceedings of the 2004 Australasian symposium on Information Visualisation - Volume 35 APVis '04**
**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(556.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Program traces can be used to drive visualisations of reusable components, but such traces can be gigabytes in size, are very expensive to generate, and are hard to extract information from. We have developed a solution to this problem, an XML Data Storage Environment (XDSE) for storing XML based program traces in a native XML database. We use XQuery to extract information from the program traces and the results are then transformed into understandable visualisations.

**Keywords:** XQuery, component reuse, native XML databases, program traces, software visualisation

#### 4 Practitioners report: Agile regression testing using record & playback



Gerard Meszaros

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**

Publisher: ACM Press

Full text available: [pdf\(267.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

There are times when it is not practical to hand-script automated tests for an existing system before one starts to modify it (whether to refactor it to permit automated testing or to add new functionality). In these circumstances, the use of "record & playback" testing may be a viable alternative to handwriting all the tests. This paper describes experiences using this approach and summarizes key learnings applicable to other projects.

**Keywords:** JUnit, XML, acceptance test, automated testing, best practices, functional test, patterns, playback, record, robot user, user interface

#### 5 XML: Schemapath, a minimal extension to xml schema for conditional constraints



Claudio Sacerdoti Coen, Paolo Marinelli, Fabio Vitali

May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**

Publisher: ACM Press

Full text available: [pdf\(198.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the past few years, a number of constraint languages for XML documents has been proposed. They are cumulatively called *schema languages* or validation languages and they comprise, among others, DTD, XML Schema, RELAX NG, Schematron, DSD, xlinkit. One major point of discrimination among schema languages is the support of co-constraints, or co-occurrence constraints, e.g., requiring that attribute A is present if and only if attribute B is (or is not) present in the same element. Although ...

**Keywords:** co-constraints, schema languages, schemapath, xml

#### 6 Tools and environments: A survey of coverage based testing tools



Qian Yang, J. Jenny Li, David Weiss

May 2006 **Proceedings of the 2006 international workshop on Automation of software test AST '06**

Publisher: ACM Press

Full text available: [pdf\(71.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Test coverage is sometimes used as a way to measure how thoroughly software is tested. Coverage is used by software developers and sometimes by vendors to indicate their confidence in the readiness of their software. This survey studies and compares 17 coverage-based testing tools focusing on, but not restricted to coverage measurement. We also survey additional features, including program prioritization for testing, assistance in debugging, automatic generation of test cases, and customization ...

**Keywords:** automate test case generation, code coverage, coverage-based testing tool, dominator analysis, eXVantage, prioritization

7 Visualising reusable software over the web

Stuart Marshall, Kirk Jackson, Robert Biddle, Michael McGavin, Ewan Tempero, Matthew Duignan

December 2001 **Proceedings of the 2001 Asia-Pacific symposium on Information visualisation - Volume 9 APVis '01**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(1.38 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an architecture we have developed for web-based visualisation of remotely executing software. The motivation for this work is to allow users of web-based software repositories to explore existing code components and frame-works, to see what they do, and create *interactive visual documentation* of that code based on the developer's actions. This visual documentation can be used to determine what the code or framework does, how it does it, and whether it can be reused in ...

**Keywords:** code reuse, software visualisation, web-based code repositories

8 Test case generation: Testing software modelling tools using data mutation

 Lijun Shan, Hong Zhu

May 2006 **Proceedings of the 2006 international workshop on Automation of software test AST '06**

Publisher: ACM Press

Full text available:  pdf(126.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modelling tools play a crucial role in model-driven software development methods. A particular difficulty in testing such software systems is the generation of adequate test cases because the test data are structurally complicated. This paper proposes an approach called data mutation to generating a large number of test data from a few seed test cases. It is inspired in mutation testing methods, but differs from them in the way that mutation operators are defined and used. In our approach, mutat ...

9 OOPSLA demonstrations chair's welcome: Web testing made easy

 Marc Guillemot, Dierk König

October 2006 **Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '06**

Publisher: ACM Press

Full text available:  pdf(213.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we describe WebTest, an Open Source tool for automated testing of web applications. In particular we will show how to quickly create tests that shine with excellent maintainability and runtime performance as well as perfect integration in the application development cycle.

**Keywords:** automatic acceptance test, change control, test driven development, web application

10 Parsing, normalizing, & storing XML: A high-performance interpretive approach to schema-directed parsing

 Morris Matsa, Eric Perkins, Abraham Heifets, Margaret Gaitatzes Kostoulas, Daniel Silva, Noah Mendelsohn, Michelle Leger

May 2007 **Proceedings of the 16th international conference on World Wide Web WWW '07**

Publisher: ACM Press

Full text available:  pdf(228.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML delivers key advantages in interoperability due to its flexibility, expressiveness, and platform-neutrality. As XML has become a performance-critical aspect of the next generation of business computing infrastructure, however, it has become increasingly clear that XML parsing often carries a heavy performance penalty, and that current, widely-used parsing technologies are unable to meet the performance demands of an XML-based computing infrastructure. Several efforts have been made to add ...

**Keywords:** XML, compiler, interpreter, parsing, performance, schema

**11 Technical papers: testing II: A framework for component deployment testing** 

Antonia Bertolino, Andrea Polini

May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**

**Publisher:** IEEE Computer Society

Full text available:  pdf(1.34 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

[Publisher Site](#)

Component-based development is the emerging paradigm in software production, though several challenges still slow down its full taking up. In particular, the "component trust problem" refers to how adequate guarantees and documentation about a component's behaviour can be transferred from the component developer to its potential users. The capability to test a component when deployed within the target application environment can help establish the compliance of a candidate component to the cust ...

**12 Research sessions: Research 16: XML views & filtering: AFilter: adaptable XML filtering with prefix-caching suffix-clustering** 

K. Selçuk Candan, Wang-Pin Hsiung, Songting Chen, Junichi Tatemura, Divyakant Agrawal  
September 2006 **Proceedings of the 32nd international conference on Very large data bases - Volume 32 VLDB'2006**

**Publisher:** VLDB Endowment

Full text available:  pdf(744.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML message filtering problem involves searching for instances of a given, potentially large, set of patterns in a continuous stream of XML messages. Since the messages arrive continuously, it is essential that the filtering rate matches the data arrival rate. Therefore, the given set of filter patterns needs to be indexed appropriately to enable real-time processing of the streaming XML data. In this paper, we propose AFilter, an adaptable, and thus scalable, path expression filtering approach. ...

**13 Reviewed articles: SIGAda 2001 workshop, "creating a symbiotic relationship between XML and Ada"** 

Robert C. Leif

September 2002 **ACM SIGAda Ada Letters**, Volume XXII Issue 3

**Publisher:** ACM Press

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The purpose of the workshop was to organize the Ada community to take advantage of the opportunity to create Ada applications that are operating systems independent because they are based on a web technology, XML, Extensible Markup Language. The commercial use of the Internet is the driving force behind XML. Four elements of XML, which together are sufficient to build a web application, and all employ the same syntax were described. These are XML; its schema; the Extensible Stylesheet Language, ...

**14 First European workshop on XML and knowledge management best papers: XML and the future of humanities computing** 

Franco Niccolucci

April 2002 **ACM SIGAPP Applied Computing Review**, Volume 10 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(44.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The existence of XML induces to hope that some limits of humanities computing may soon be trespassed. Here we mention some arguments concerning data management and 3D visualization, describing a few examples and test cases where the use of XML dramatically improved the quality of the application. These include text encoding, archaeological data management and Virtual Reality reconstruction of Cultural Heritage.

**Keywords:** X3D, archaeological databases, cultural virtual reconstructions, medieval history

#### 15 eXtended cumulated gain measures for the evaluation of content-oriented XML retrieval



Gabriella Kazai, Mounia Lalmas

October 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(3.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose and evaluate a family of measures, the eXtended Cumulated Gain (XCG) measures, for the evaluation of content-oriented XML retrieval approaches. Our aim is to provide an evaluation framework that allows the consideration of dependency among XML document components. In particular, two aspects of dependency are considered: (1) near-misses, which are document components that are structurally related to relevant components, such as a neighboring paragraph or container section, and (2) over ...

**Keywords:** INEX, XML retrieval, cumulated gain, dependency, evaluation, metrics, near-miss, overlap

#### 16 E-Design Based on the Reuse Paradigm

L. Ghanmi, A. Ghrab, M. Hamdoun, B. Missaoui, K. Skiba, G. Saucier

March 2002 **Proceedings of the conference on Design, automation and test in Europe DATE '02**

**Publisher:** IEEE Computer Society

Full text available:  pdf(244.78 KB) Additional Information: [full citation](#), [abstract](#), [citations](#)

This paper gives an overview on a Virtualelectronic component or IP (Intellectual Property)exchange infrastructure whose main components area XML "well structured IP e-catalog Builder à and a" XML IP profilerà While the first module is ae\_publishing and an exchange management modulethe second has as role to extract from the designdirectories the IP files and to trigger their transferto the user site possibly via an IP distribution serverunder the catalog control. Direct Design fileextraction fro ...

#### 17 INEX reports: Report on the ad-hoc track of the INEX 2005 workshop



Mounia Lalmas, Gabriella Kazai

June 2006 **ACM SIGIR Forum**, Volume 40 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(214.09 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The INITiative for the Evaluation of XML retrieval (INEX) has, since 2002, been working towards the goal of establishing an infrastructure, in the form of a large XML test collection and appropriate scoring methods, for the evaluation of content-oriented XML retrieval systems. In 2005, 47 organizations registered to participate in INEX. Throughout the year a number of groups dropped out due to resource requirements, while 11 further groups joined. INEX 2005 concluded with a total of 41 active gr ...

**DB-2 (databases): data streams: EXPedite: a system for encoded XML processing**

Yi Chen, George A. Mihaila, Susan B. Davidson, Sriram Padmanabhan

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04****Publisher:** ACM PressFull text available: pdf(217.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As XML becomes an increasingly popular format for information exchange, the efficient processing of broadcast XML data on a constrained device (for example, a cell phone or a PDA) becomes a critical task. In this paper we present the EXPedite system: a new model of data processing in an information exchange environment, which "migrates" the power of the data-sending server to receivers for efficient processing. It consists of a simple and general encoding scheme for servers, and streaming que ...

**Keywords:** XML, XPath, binary encoding, query processing**19 Testing and instrumentation: Experiences in coverage testing of a Java middleware**

Mehdi Kessis, Yves Ledru, Gérard Vandome

September 2005 **Proceedings of the 5th international workshop on Software engineering and middleware SEM '05****Publisher:** ACM PressFull text available: pdf(165.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses the issues of test coverage analysis of J2EE [22] servers. These middleware are nowadays at the core of the modern information technology's landscape. They provide enterprise applications with several non functional services such as security, persistence, transaction, messaging, etc. In several cases, J2EE servers play a critical role when applied to e-business or banking applications. Therefore, ensuring the quality of such software layers becomes an essential requirement. ...

**Keywords:** J2EE, JOnAS, code coverage testing, large scale software development, middleware, software engineering**20 XMill: an efficient compressor for XML data**

Hartmut Liefke, Dan Suciu

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00, Volume 29 Issue 2****Publisher:** ACM PressFull text available: pdf(404.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a tool for compressing XML data, with applications in data exchange and archiving, which usually achieves about twice the compression ratio of gzip at roughly the same speed. The compressor, called XMill, incorporates and combines existing compressors in order to apply them to heterogeneous XML data: it uses zlib, the library function for gzip, a collection of datatype specific compressors for simple data types, and, possibly, user defined compressors for application specific data ...

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 Terms used XML and test report.

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### 181 Semistructured Data: XOO7: applying OO7 benchmark to XML query processing tool

Ying Guang Li, Stéphane Bressan, Gillian Dobbie, Zoé Lacroix, Mong Li Lee, Ullas Nambiar, Bimlesh Wadhwa

October 2001 **Proceedings of the tenth international conference on Information and knowledge management CIKM '01**

Publisher: ACM Press

Full text available: [pdf\(1.41 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

If XML is to play the critical role of the lingua franca for Internet data interchange that many predict, it is necessary to start designing and adopting benchmarks allowing the comparative performance analysis of the tools being developed and proposed. The effectiveness of existing XML query languages has been studied by many, with a focus on the comparison of linguistic features, implicitly reflecting the fact that most XML tools exist only on paper. In this paper, with a focus on efficiency a ...

**Keywords:** XML aware database, XML benchmarks, XML management systems, XOO7, native-XML database

### 182 Semistructured Data: Induction of integrated view for XML data with heterogeneous DTDs

Euna Jeong, Chun-Nan Hsu

October 2001 **Proceedings of the tenth international conference on Information and knowledge management CIKM '01**

Publisher: ACM Press

Full text available: [pdf\(2.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper proposes a novel approach to integrating heterogeneous XML DTDs. With this approach, an information agent can be easily extended to integrate heterogeneous XML-based contents and perform federated search. Based on a tree grammar inference technique, this approach derives an integrated view of XML DTDs in an information integration framework. The derivation takes advantages of naming and structural similarities among DTDs in similar domains. The complete approach consists of three main ...

**Keywords:** XML DTD, distributed databases, federated search, intelligent agent, mark-up schemes, semistructured data

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[Computing graphical queries over XML data](#)





Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 4**Publisher:** ACM Press

Full text available: pdf(707.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

**Keywords:** Document restructuring, graphical query languages, semantics**184 Posters and Short Papers: SVG for navigating digital news video**

Michael G. Christel, Chang Huang

October 2001 **Proceedings of the ninth ACM international conference on Multimedia MULTIMEDIA '01****Publisher:** ACM Press

Full text available: pdf(1.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Scalable Vector Graphics (SVG) is a language for describing two-dimensional graphics in XML, specifically vector graphic shapes, images, and text. SVG is a new World Wide Web Consortium (W3C) Candidate Recommendation as of November 2000, and this paper describes how SVG provides an ideal framework for presenting manipulable, interactive summarizations into a multimedia information repository. Specifically, we present VIBE and map SVG interfaces into a digital news video library for delivery thro ...

**Keywords:** SVG, digital video library, surrogate**185 Workshop reports: Cross-Language Chinese Text Retrieval in NTCIR Workshop:****towards Cross-Language multilingual Text Retrieval**

Kuang-hua Chen, Hsin-Hsi Chen

September 2001 **ACM SIGIR Forum**, Volume 35 Issue 2**Publisher:** ACM Press

Full text available: pdf(685.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

This article reports the results of Chinese Text Retrieval (CHTR) tasks in NTCIR Workshop 2 and the future plan of NTCIR workshop. CHTR tasks fall into two categories: Chinese-Chinese IR (CHIR) and English-Chinese IR (ECIR). The definitions, schedules, test collection (CIRB010), search results, evaluation, and initial analyses of search results of CHIR and ECIR are discussed in this article. The new plan of NTCIR towards multilingual Cross-Language Information Retrieval (CLIR) is also described.

**186 Using the web for document versioning: an implementation report for Delta V**

James J. Hunt, Jürgen Reuter

July 2001 **Proceedings of the 23rd International Conference on Software Engineering ICSE '01****Publisher:** IEEE Computer Society

Full text available: pdf(95.21 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Publisher Site

*The current suite of systems that offer client/server capabilities for document versioning relies on proprietary protocols for communicating between a central versioning repository and a remote client. In order to support better document authoring via the Web, the DeltaV working group of the Web-DAV (WWW Distributed Authoring and Versioning) project of the Internet Engineering Task Force is working on a standard protocol for versioning over HTTP. The authors present a prototype of DeltaV b ...*

**Keywords:** Delta V, RCE, WWW, WebDAV, versioning

**187 TIGRA — an architectural style for enterprise application integration**

Wolfgang Emmerich, Ernst Ellmer, Henry Fieglein

July 2001 **Proceedings of the 23rd International Conference on Software Engineering ICSE '01**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(137.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
 [Publisher Site](#)

We report on experience that we made in the Trading room InteGRation Architecture project (TIGRA) at a large German bank. TIGRA developed a distributed system architecture for integrating different financial front-office trading systems with middle- and back-office applications. We generalize the experience by proposing an architectural style that can be re-used for similar enterprise application integration tasks. The TIGRA style is based on a separation of data representation using domain-s ...

**188 Representing and querying XML with incomplete information**

 Serge Abiteboul, Luc Segoufin, Victor Vianu

May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '01**

**Publisher:** ACM Press

Full text available:  [pdf\(226.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations systems developed by Imielinski and Lipski for relational databases. In the scenario we consider, the incomplete information about an XML document is continuously enriched by successive queries to the document. We show that our representation ...

**189 Automated reasoning with legal XML documents**

 Laurence L. Leff

May 2001 **Proceedings of the 8th international conference on Artificial intelligence and law ICAIL '01**

**Publisher:** ACM Press

Full text available:  [pdf\(26.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have integrated the Jess Expert System tool from Sandia Labs [2] with the Xerces XML parser. We submit to this software contracts and court filings for litigation involving those contracts. These are written as per a contract standard submitted to the Legal XML standards group [5] and the court filing proposed standards. The software determines if a summary judgment request can be granted based on the submitted affidavits, contracts, and other documents.

**190 Personalizing E-commerce applications with on-line heuristic decision making**

 Vinod Anupam, Richard Hull, Bharat Kumar

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

**Publisher:** ACM Press

Full text available:  [pdf\(261.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** B2C E-commerce, personalization, pro-active intervention, vortex rules

system

**191 Multidocument summarization via information extraction**

Michael White, Tanya Korelsky, Claire Cardie, Vincent Ng, David Pierce, Kiri Wagstaff  
March 2001 **Proceedings of the first international conference on Human language technology research HLT '01**

**Publisher:** Association for Computational Linguistics

Full text available:  pdf(72.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present and evaluate the initial version of RIPTIDES, a system that combines information extraction, extraction-based summarization, and natural language generation to support user-directed multidocument summarization.

**192 Component selection and matching for IP-based design**

G. Martin, R. Seepold, T. Zhang, L. Benini, G. De Micheli  
March 2001 **Proceedings of the conference on Design, automation and test in Europe DATE '01**

**Publisher:** IEEE Press

Full text available:  pdf(170.22 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**193 XSLT for tailored access to a digital video library**

 Michael G. Christel, Bryan Maher, Andrew Begun  
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries JCDL '01**

**Publisher:** ACM Press

Full text available:  pdf(892.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Surrogates, summaries, and visualizations have been developed and evaluated for accessing a digital video library containing thousands of documents and terabytes of data. These interfaces, formerly implemented within a monolithic stand-alone application, are being migrated to XML and XSLT for delivery through web browsers. The merits of these interfaces are presented, along with a discussion of the benefits in using W3C recommendations such as XML and XSLT for delivering tailored access to ...

**Keywords:** XML, XSLT, digital video library, surrogate

**194 Prototype for wrapping and visualizing geo-referenced data in a distributed**

 **environment using XML technology**

Jianting Zhang, Muhammad Javed, Amir Shaheen, Le Gruenwald  
November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems GIS '00**

**Publisher:** ACM Press

Full text available:  pdf(618.21 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper proposes a prototype for integration and visualization of geo-referenced information (GRI) in a distributed environment in general and World Wide Web in particular. This prototype adopts a three-tier architecture and includes three main components: GRI wrapper for distributed GRI web sites, GRI integration mediator and client side visualization interface.

In this prototype, XML is used as a communication protocol between distributed web sites that provide GRI and the mediat ...

**Keywords:** XML, geo-referenced information, integration, visualization

**195 Regular expression types for XML** Haruo Hosoya, Jérôme Vouillon, Benjamin C. PierceSeptember 2000 **ACM SIGPLAN Notices , Proceedings of the fifth ACM SIGPLAN international conference on Functional programming ICFP '00**, Volume 35 Issue 9**Publisher:** ACM PressFull text available:  pdf(575.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose *regular expression types* as a foundation for XML processing languages. Regular expression types are a natural generalization of Document Type Definitions (DTDs), describing structures in XML documents using regular expression operators (i.e., \*, ?, |, etc.) and supporting a simple but powerful notion of *subtyping*. The decision problem for the subtype relation is EXPTIME-hard, but it can be checked quite efficiently in many cases of practical interest. The subtyping algori ...

**196 jRapture: A Capture/Replay tool for observation-based testing** John Steven, Pravir Chandra, Bob Fleck, Andy PodgurskiAugust 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '00**, Volume 25 Issue 5**Publisher:** ACM PressFull text available:  pdf(403.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe the design of jRapture: a tool for capturing and replaying Java program executions in the field. jRapture works with Java binaries (byte code) and any compliant implementation of the Java virtual machine. It employs a lightweight, transparent capture process that permits unobtrusive capture of a Java programs executions. jRapture captures interactions between a Java program and the system, including GUI, file, and console inputs, among other types, and on replay it presents eac ...

**Keywords:** Java, capture/replay, execution profiling, observation-based testing, software testing

**197 Interactive mathematics via the Web using MathML** Francis J. WrightJune 2000 **ACM SIGSAM Bulletin**, Volume 34 Issue 2**Publisher:** ACM PressFull text available:  pdf(1.07 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

MathML is a mathematical markup language intended for displaying mathematics in web browsers. At present, it can be used to display mathematics generated dynamically in response to interactive queries only if the browsing and generating facilities are chosen carefully. This paper examines the background and possible options, and describes some of the details of the use of MathML to display the output from a web-based demonstration of an ordinary differential equation solver running in REDUCE ...

**198 XMill: an efficient compressor for XML data** Hartmut Liefke, Dan SuciuMay 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2**Publisher:** ACM PressFull text available:  pdf(404.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe a tool for compressing XML data, with applications in data exchange and archiving, which usually achieves about twice the compression ratio of gzip at roughly the same speed. The compressor, called XMill, incorporates and combines existing compressors in order to apply them to heterogeneous XML data: it uses zlib, the library function for gzip, a collection of datatype specific compressors for simple data types, and,

possibly, user defined compressors for application specific data ...

**199 Report of the national workshop on internet voting: issues and research agenda**

C. D. Mote

May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**

**Publisher:** Digital Government Research Center

Full text available:  pdf(539.99 KB) Additional Information: [full citation](#), [abstract](#)

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...

**200 Complex queries in XML-GL**



S. Ceri, S. Comai, E. Damiani, P. Fraternali, L. Tanca

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2 SAC '00**

**Publisher:** ACM Press

Full text available:  pdf(475.84 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** WWW, XML, graphical languages, query languages

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